INTRODUCTION INCLUDING PUBLIC PROBLEM, ADMINISTRATIVE REQUIREMENT, OR OTHER CONDITION OR CIRCUMSTANCE THE REGULATION IS INTENDED TO ADDRESS (pursuant to GC § 11346.2(b)(1))...NECESSITY (pursuant to GC § 11346.2(b)(1) and 11349(a))....BENEFITS (pursuant to GC § 11346.2(b)(1))

Pursuant to the Z'berg-Nejedly Forest Practice Act of 1973, PRC § 4511, et seq. (FPA) the State Board of Forestry and Fire Protection (Board) is authorized to construct a system of forest practice regulations applicable to timber management on state and private timberlands.

PRC § 4551 requires the Board to “…adopt district forest practice rules… to ensure the continuous growing and harvesting of commercial forest tree species and to protect the soil, air, fish, wildlife, and water resources…” and PRC § 4553 requires the Board to continuously review the rules in consultation with other interests and make appropriate revisions.

Furthermore, PRC § 4551.5 requires that these regulations adopted by the Board “…apply to the conduct of timber operations and shall include, but shall not be limited to, measures for fire prevention and control, for soil erosion control, for site preparation that involves disturbance of soil or burning of vegetation following timber harvesting activities, for water quality and watershed control, for flood control, for stocking, for protection against timber operations that unnecessarily destroy young timber growth or timber productivity of the soil, for prevention and control of damage by forest insects, pests, and disease…”.

The regulations related to harvesting practices and erosion control for tractor operations and cable operations in the Forest Practice Rules (Rules) within the Coast, Northern, and Southern Forest Districts within 14 CCR §§ 914.2 & 914.3, 934.2 & 934.3, and 954.2 & 954.3, respectively, were initially adopted, in their modern incarnation, in 1989 and, aside from some minor amendments, remain largely as they were initially adopted. Since this time, however, both logging practices, and other regulations which govern their operations, have grown and changed in the 31 years following initial adoption.
One of the recent developments in logging practices is the use of cable-winch systems to assist ground-based equipment with timber harvesting on steep slopes, a practice which is often referred to as “tethered logging”. Traditionally, logging operations on steep slopes utilize cable yarding, or cable operations, which involves manual tree falling and cable rigging in difficult terrain, a process which is labor-intensive, costly, and extremely hazardous. Due to these issues surrounding traditional cable operations, available timber operators with the equipment to engage in such operations are becoming more and more scarce, which creates an issue for those property owners or managers who seek to actively manage forested landscapes which are steep.

Tethered logging operations combine the use of ground-based equipment with a cable-tension system in order to increase the machine’s traction to prevent slippage. The increase in traction allows the machine to work on steeper slopes than would otherwise be possible while reducing the ground disturbance of the machine. These systems have been used to increase the operating range of ground-based equipment and reduce the need for hand-fallers and/or cable yarding systems.

The improved traction provided by the cable-winch assistance in Tethered Operations may provide for improvements in forest health related to soil health and erosion control. One of the key components of forest management is the maintenance of soil productivity and the minimization of soil compaction plays a critical role in the maintenance of such productivity. Soil compaction can contribute to erosion, and may negatively affect environmental quality of aquatic ecosystems and downstream resources. The use of cable-winch systems with heavy ground-based machines can provide for much more evenly distributed, or reduced, ground pressures in certain instances, resulting in potentially reduced soil compaction and reduced degradation of soil productivity.

The problems that this proposed action seeks to address are that the existing Rules do not accommodate, or provide any certainty in use of, these Tethered Operations. To be clear, the current Rules do not exclude the use or implementation of Tethered Operations, instead they are treated as any alternative practice within the rules and additional explanation and justification is generally necessary to implement their use. Furthermore, provided the ground-cable hybrid nature and general novelty of these systems, some confusion may exist related to how current regulations apply to these systems.

Additionally, many of the existing provisions of the Coast, Northern, and Southern Tractor and Cable Operation regulations within 14 CCR §§ 914.2 & 914.3, 934.2 & 934.3, and 954.2 & 954.3, respectively, are unclear or otherwise redundant, inconsistent, or simply outdated in light of other existing modern forest practice regulations related to ground-based and cable timber operations.

The purpose of the proposed action is to: 1) provide for the implementation of specific tethered logging systems for use in timber operations within the Rules and clarify what manner of system is intended for such use in Tethered Operations; 2) improve the
clarity and consistency of certain existing regulations related to harvesting practices and
erosion control by using modern and defined terminology and regulations; 3) eliminate
redundancy within existing regulations; 4) provide for appropriate disclosure in order to
support the enforcement of those purposes described above.

The effect of the proposed action is to: 1) provide regulatory certainty around the role
and application of tethered logging operations within the Rules; 2) create more
straightforward and streamlined requirements for the regulated public surrounding the
application of rules related to tractor and cable Timber Operations; 3) provide clarity for
the implementation and enforcement of Tractor and Cable Operation regulations.

The benefit of the proposed action is a regulatory scheme with improved clarity related
to the use of Tethered Operations. Such an improvement in the clarity of use of tethered
equipment is likely to lead to an increase in purchasing and utilization of such
equipment, which is likely to improve worker health and safety over traditional Cable
Operations, as mechanized Timber Operations (such as those used in Tethered
Operations) have injury rates almost seven times lower for mechanized systems as
compared to hand-falling and non-mechanized systems.

SPECIFIC PURPOSE OF EACH ADOPTION, AMENDMENT OR REPEAL (pursuant
to GOV § 11346.2(b)(1)) AND THE RATIONALE FOR THE AGENCY’S
DETERMINATION THAT EACH ADOPTION, AMENDMENT OR REPEAL IS
REASONABLY NECESSARY TO CARRY OUT THE PURPOSE(S) OF THE
STATUTE(S) OR OTHER PROVISIONS OF LAW THAT THE ACTION IS
IMPLEMENTING, INTERPRETING OR MAKING SPECIFIC AND TO ADDRESS THE
PROBLEM FOR WHICH IT IS PROPOSED (pursuant to GOV §§ 11346.2(b)(1) and
11349(a) and 1 CCR § 10(b)). Note: For each adoption, amendment, or repeal
provide the problem, purpose and necessity.

The Board is proposing action to amend 14 CCR §§ 895.1, 914, 914.2, 914.6, 934,
934.2, 934.6, 954, 954.2, 954.6, 1034, 1038.2, 1038.4, 1052, 1090.5, 1090.7, 1092.09,
1094.6, and 1094.8, and to repeal 14 CCR §§ 914.3, 934.3, and 954.3.

General Note on the Amendment of “THP” to “Plan”
Throughout the proposed action, the defined initialism “THP” (14 CCR § 895) has been
replaced with the defined term “Plan”. When these regulations were initially adopted, the
Timber Harvesting Plan (THP) was one of the only discretionary permits for timber
harvesting provided by the Rules. Since that time, numerous discretionary permitting
vehicles have been created within regulation, which are identified throughout most of
the modern Rules as “Plans”. The purpose of amending this term within these
provisions is to capture the applicability of the regulations to all discretionary timber

comparisons for nonmechanized and mechanized logging operations, Washington
harvesting permitting vehicles, not simply the Timber Harvest Plan. This is necessary to clarify the applicability of the regulations and to aid in their implementation and enforcement.

Amend § 895.1. Definitions. The proposed action modifies the definition of “Tractor Operations” to mean any activity associated with Timber Operations which is performed by wheel or track mounted ground-based equipment, including, but not limited to, tractors or skidders. The purpose of this amendment is to provide clarity surrounding the generally colloquial term of “tractors”, as well as the term “skidders”, which may have various interpretations, by identifying that all ground-based equipment which is equipped with wheels or tracks is subject to regulations related to Tractor Operations, and to provide examples of tractors and skidders. This amendment is necessary to add clarity to this definition and to aid in the implementation of those regulations related to this definition.

The proposed action defines the term “Tethered Operations” to mean tractor operations which use synchronized cable winch systems which have been specifically designed or modified by the manufacturer or professional engineer to assist in felling or yarding timber operations. The term “synchronized” is further defined internally as being a mode of operation in which a traction aid winch is operated automatically using pre-set pulling and braking forces to maintain cable tension with the speed of the machine. The purpose of this definition is to specify which types of equipment are subject to the regulations related to Tethered Operations. These amendments are necessary in order to clarify the types of equipment which are suitable for steep slope operations. The types of equipment included in this definition have been studied and evaluated as “tethered” equipment, the use of which are likely to result in the operational, environmental, and safety benefits described above within this document, while the definition excludes those types of equipment which may use some form of cable-winch for assistance, but do not otherwise provide for those benefits. As described within the definition, the elements of synchronization, designed by qualified parties (the manufacturer or an engineer), are critical components of such benefits.

Amend §§ 914, 934, and 954. Purposes. The proposed action requires that all Timber Operations (defined per 14 CCR § 895.1) be conducted to prevent degradation of the quality and Beneficial uses of water consistent with 14 CCR §§ 916.2, 936.2, and 956.2, as applicable, as well as to prevent degradation of the Beneficial Functions of Riparian Zones, consistent with those cited sections as well. The purpose of these amendments is to provide additionally clarity into how timber operations may achieve those performance requirements, as the cited sections provide guidance on the protection of the Beneficial Uses of Water and Riparian Functions. This is necessary in order to improve the clarity of these provisions.

Additionally, the proposed action requires that all Timber Operations be conducted to maintain site productivity by minimizing disturbance which could lead to soil loss. The purpose of this amendment is to clarify the means by which soil loss should explicitly be
minimized in order to maintain site productivity. This amendment is necessary in order to clarify this requirement for the purposes of implementation and enforcement.

Furthermore, the term “Riparian vegetation” has been replaced with the term “Beneficial Functions of Riparian Zones”, as defined per 14 CCR § 895.1. The purpose of this amendment is to clarify the use of the term by inclusion of the defined term. This is necessary in order to provide such clarity to the regulated public in order to aid in the implementation and enforcement of this provision.

Finally, the proposed action eliminates the conclusion of this provision, as it simply reiterates the introductory paragraph and may cause issues with clarity. The introductory paragraph of these sections already provides mandatory conditions of timber operations, which are also addressed by the subsequent sections of the Article and are applicable without the conclusion sentence. Additionally, some of the sections within the Article contain provisions which may be confusing to interpret in the context of this sentence. This amendment is necessary to clarify that, as identified in the remainder of the section, the section applies to all timber operations, and to eliminate any issues with clarity which may result from this sentence.

Amend §§ 914.2, 934.2, and 954.2. Operations (Renamed from Tractor Operations)
The proposed amendment eliminates the condition that the section is only applicable to Tractor Operations. The purpose of this amendment is to support the re-structuring of this and the “Cable Operations” sections into a single section which contains requirements, conditions, and provisions regarding Timber Operations and related to the intent as stated within 14 CCR §§ 914, 934, and 954.

Amend §§ 914.2(a), 934.2(a), and 954.2(a)
The proposed action requires that all Timber Operations be conducted in a manner which complies with 14 CCR §§ 914, 934, and 954. The purpose of this amendment is to clarify that the requirements identified within those sections are applicable to all forms of Timber Operations, not solely Tractor Operations, and to support the restructuring described above. This amendment is necessary in order to clarify this new requirement in order to provide for implementation and enforcement.

Amend §§ 914.2(b), 934.2(b), and 954.2(b)
The proposed amendment requires that all heavy equipment which is equipped with a blade shall not operate on skid roads or slopes that are so steep as to require the use of the blade for braking. The purpose of this amendment is to improve the clarity of this provision, as the distinction between “tractors” and “other heavy equipment” was unnecessary and potentially redundant. This is necessary to clarify that this provision applies to all heavy equipment which is equipped with a blade.

Amend §§ 914.2(c), 934.2(c), and 954.2(c)
The proposed action eliminates the requirement that existing Tractor Roads be used instead of constructing new Tractor Roads when less damage to the resources specified in 14 CCR §§ 914, 934, or 954 will result. Provided that 14 CCR §§ 914.2(a),
934.2(a), and 954.2(a) require compliance with 14 CCR §§ 914, 934, and 954, respectively, which itself requires minimization of damage to specified resources, this statement is redundant. The purpose of this amendment is to eliminate this redundancy and to rely upon compliance with 14 CCR §§ 914.2(a), 934.2(a), and 954.2(a). This amendment is necessary to clarify the elimination of this redundant statement.

**Amend §§ 914.2(f), 934.2(f), and 954.2(f)**
The proposed amendment introduces a set of limitations on certain Timber Operations. Previously, the provision identified that the limitations were applicable only to Tractor Operations, however some of the provisions are related to all heavy equipment, not simply those tractor operations and would create an inconsistency where the use of heavy equipment may not constitute Tractor Operations. The purpose of the proposed action is to address this inconsistency and clarify that all subsequent provisions are not strictly limited to Tractor Operations, but should be applied as described and appropriate

**Amend §§ 914.2(f)(1), 934.2(f)(1), and 954.2(f)(1)**
The proposed action excludes Tethered Operations from slopes which are steeper than sixty-five percent, or where slopes steeper than fifty percent where the Erosion Hazard Rating is high or extreme. Given that equipment used in Tethered Operations, as defined within the proposed action, are intended to be, and capable of being, operated on steep slopes, the purpose of this amendment is to allow for Tethered Operations to occur in these areas. This amendment is necessary to clarify this allowance for Tethered Operations in order to provide for implementation and enforcement of this provision.

**Amend §§ 914.2(f)(2), 934.2(f)(2), and 954.2(f)(2) (previously (f)(1)(iii))**
The proposed amendment restructures this provision outside of the slope exemptions provided to Tethered Operations within 14 CCR §§ 914.2(f)(1), 934.2(f)(1), and 954.2(f)(1), but does not substantively change the content of this provision. The purpose of this provision is to restrict the operation of all heavy equipment under certain conditions. This amendment is necessary to clarify that Tethered Operations are not exempt from these restrictions.

**Amend §§ 914.2(f)(3), 934.2(f)(3), and 954.2(f)(3) (previously (f)(2))**
The proposed action provides an exception for Tethered Operations on certain slope-based limitations. Given that equipment used in Tethered Operations, as defined within the proposed action, are intended to be, and capable of being, operated on steep slopes, the purpose of this amendment is to allow for Tethered Operations to occur in these areas. This amendment is necessary to clarify this allowance for Tethered Operations in order to provide for implementation and enforcement of this provision.

**Amend §§ 914.2(f)(4), 934.2(f)(4), and 954.2(f)(4) (previously (f)(3))**
The proposed action allows a Registered Professional Forester (RPF) to propose exceptions to the limitations of 14 CCR §§ 914.2(f)(1)-(3), 934.2(f)(1)-(3), or 954.2(f)(1)-(3) if the Plan clearly explains the proposed exception and justifies how the exception
will comply with 14 CCR § 914, 934, or 954, respectively. Previously, the RPF was required to justify why the application of the standard rule was either not Feasible (per 14 CCR § 895.1), or would not comply with 14 CCR §§ 914, 934, or 954, as appropriate. The purpose of this amendment is to clarify the standards of justification which must be met for the proposal of alternative practices to those provisions described. Similar standards of justification, which is reliant upon the RPF to explain how the proposed alternative will satisfy the purpose and intent of the rules, exists elsewhere in the rules, such as within 14 CCR §§ 912.7(d)(1), 916.1, 921.9, 932.7(d)(1), 936.1, 952.7(d)(1), 956.1, and 1051.4(a)(9), and are suitable and appropriate here in order to achieve the goals stated within this provision. This amendment is necessary in order to clarify this standard of justification in order to promote implementation and enforcement of this provision and subsequent alternatives.

Additionally, the proposed action provides that the location of Tractor Roads to be used in the exceptions or alternatives described above must be flagged prior to the pre-harvest inspection, or prior to the start of Timber Operations when no preharvest inspection is required, only when required by the Director. The purpose of this amendment is to provide the Director the discretion to determine, following evaluation of a plan, whether or not tractor roads proposed as exceptions will require flagging. If flagging is required by the Director, there are prescriptive timelines by which that flagging must occur. This amendment is necessary to eliminate potentially unnecessary or overly-burdensome flagging requirements where they may not be necessary, as the previous language required flagging of all such roads.

Amend §§ 914.2(f)(5), 934.2(f)(5), and 954.2(f)(5)

The proposed action allows Tractor Operations, excluding Yarding, from occurring in areas designated for Cable Yard on slopes up to 50%, with certain specific limitations as described within this section and any other limitations on Tractor Operations which exist throughout the Rules and which may be applicable to any given Timber Operation. Previously, Tractor Operations were prohibited in areas designated for Cable Operations except for certain, specified activities when explained and justified by an RPF, within 14 CCR §§ 914.3(e), 934.3(e), and 954.3(e). The purpose of this amendment is to allow all Tractor Operations, except for Yarding, in those areas where all Tractor Operations are currently allowed, without exception (slopes less than 50%), save for the other limitations described. This amendment may provide for increased utilization of Tractor Operations, which are significantly more efficient than Cable Operations, to assist and improve the efficiency of those Cable Operations in areas where there is no other environmental sensitivity related to Tractor Operations. This amendment is necessary to clarify both this allowance and the applicability of restrictions on the allowance.

Amend §§ 914.2(h), 934.2(h), and 954.2(h)

The proposed amendment requires Timber Operators to exercise due diligence to preserve desirable residual trees and seedlings which are required to be retained upon completion of Timber Operations. The purpose of this amendment is to provide additional clarity as to which trees the Timber Operator must use due diligence to not
damage or destroy during Timber Operations. Throughout the Rules, various retention requirements exist depending upon the forest management activity and permit, and this provision requires that those desirable trees which are required for retention be protected from damage or destruction. This amendment is necessary in order to clarify this requirement and to aid in implementation and enforcement of this provision.

Also, the proposed amendment clarifies that the measures taken to protect certain residual trees and seedlings described above should be taken to protect those trees and seedlings from all Timber Operation activities, not only those associated with Tractor Operations. The purpose of this is to clarify that this provision is applicable to all Timber Operations, and is necessary to ensure consistency of application and resource protection.

Finally, the proposed amendment prohibits using the residual trees described above for rub trees, corner blocks, Rigging, or other cable ties unless effectively protected from damage. This provision comes from the previous requirement of 14 CCR §§ 914.3(b), 934.3(b), and 954.3(b), which identified these prohibitions for Cable Operations. The purpose of the proposed amendment is to support the restructuring of the tractor and cable operation rule sections into one rule section. This amendment is necessary to clarify and maintain these prohibited activities (and exceptions) to the regulated public which are intended to prevent damage or destruction of residual trees following Timber Operations. Please see the discussion on the repeal of 14 CCR §§ 914.3, 934.3, and 954.3 for additional information.

Amend §§ 914.2(i), 934.2(i), and 954.2(i)
The proposed amendment repeals a provision which requires that, where Waterbreaks cannot effectively disperse surface runoff, other Erosion Controls shall be installed as needed. This provision substantively exists within 14 CCR §§ 914.6(f), 934.6(f), and 954.6(f), within a section related to Waterbreaks, and its inclusion within 14 CCR §§ 914.2, 934.2, and 954.2 is redundant and unnecessary. The purpose of this amendment is to eliminate this redundancy and improve the clarity of all affected rule sections. This amendment is necessary to promote such clarity.

Amend § 954.2(j) and (k)
The proposed amendment repeals prescriptive limitations on mechanical site preparation in the Southern Forest District, as well as the process for proposing exceptions to those limitations. Provided that other provisions of the Rules contain requirements for site preparation (Article 5), and watercourse and lake protection (Article 6) which are intended to protect forest resources, and the other provisions within 14 CCR § 954.2 which allow other harvesting operations on slopes steeper than those identified within 14 CCR § 954.2(j), these additional restrictions are unnecessary for the protection of forest resources in Southern Forest District. Furthermore, in reviewing the issue, the Board and the Department have found that a large portion of Plans submitted in the Southern Forest District propose exceptions to these limitations which are consistent with other portions of the rules (Articles 5 and 6) and there have been no issues with damage to resources as a result of the implementation of those plans. The
Repeal §§ 914.3, 934.3, and 954.3. Cable Yarding
The proposed amendment repeals the sections which provide standards applicable to Cable Yarding in the Coast, Northern, and Southern Forest Districts. Subsections (a), (c), and (d) all provide performance-based requirements to protect residual trees from Cable Yarding. The restructuring contained within the proposed action provides similar requirements for the protection of residual trees within 14 CCR § 914, 914.2(a), 914.2(h), 934, 934.2(a), 934.2(h), 954, 954.2(a), and 954.2(h) for all Timber Operations (including Cable Yarding operations). The purpose of the elimination of these subsections in 14 CCR §§ 914.3, 934.3, and 954.3 is to eliminate any redundancy within the regulations and is necessary to clarify that the goals of protecting residual trees from damage is applicable to all Timber Operations.

Subsection (b) includes explicit prohibitions against certain cable-yarding specific activities (except in specified conditions), which are retained within 14 CCR §§ 914.2(h), 934.2(h), and 954.2(h). The purpose of the elimination within this section is to support the restructuring of this proposed action and is necessary to eliminate redundancy within the provisions and provide clarity within the regulations.

Subsection (e) prohibits Tractor Operations in those areas designated for Cable Yarding, except for certain activities when explained and justified. The amendments to 14 CCR §§ 914.2(f)(5), 934.2(f)(5), and 954.2(f)(5) render these prohibitions obsolete and the purpose of their removal within this subsection is to support those revisions and are necessary to clarify these revised prohibitions and conditions.

Amend §§ 914.6(a), 934.6(a), and 954.6(a) (formerly un-lettered preamble)
The proposed amendment identifies the conditions under which Waterbreaks are required to be constructed, including identifying those features upon which the construction of Waterbreaks may be required, as well as the conditions under which the construction of those Waterbreaks is required. These conditions and requirements were previously extant in 14 CCR §§ 914.6(b), 934.6(b), and 954.6(b) (now re-lettered to (c)), but have been moved to this new subsection to provide additional clarity of the section through a restructuring. This restructure is necessary in order clarify when and where Waterbreaks are required to be constructed, prior to identifying any other conditional elements of Waterbreak construction which appear throughout the section. This improved clarity will improve both the implementation of these requirements, as well as their enforcement.

Amend §§ 914.6(c), 934.6(c), and 954.6(c) (formerly b)
The proposed amendment eliminates a requirement that Waterbreaks be constructed immediately upon the conclusion of use of certain features, though it should be noted that the identification of which features require Waterbreak construction, and the condition upon which those Waterbreaks must be constructed have been preserved within 14 CCR §§ 914.6(a), 934.6(a), and 954.6(a). The purpose of the elimination of
the above requirement is to rely upon the existing requirements of 14 CCR §§ 914.6(b), 934.6(b), and 954.6(b) (formerly (a)), as well as 14 CCR §§ 923.5(j), 943.5(j), and 963.5(j), which provide other timing requirements which are intended to ensure the construction of these erosion control measures prior to any potential erosion-causing weather. This amendment is necessary to clarify the conditions under which Waterbreaks must be constructed for the implementation of this section, as well as its enforcement. Please see the necessity statement for amendments to 14 CCR §§ 914.6(a), 934.6(a), and 954.6(a) for additional information.

Amend §§ 914.6(d), 934.6(d), and 954.6(d)
The proposed amendment requires that, when Tethered Operations are proposed in a Plan, an RPF must explain how Tractor Roads used in those operations will be treated in order to minimize disturbance which could lead to soil loss and comply with 14 CCR §§ 914, 934, or 954, as appropriate. The purpose of this amendment is to require the RPF to make site-specific evaluations on the treatment of those Tractor Roads in order to comply with the provisions of 14 CCR §§ 914, 934, or 954, which are intended to minimize damage and provide for resource protection. RPFs are uniquely qualified to prescribe such treatments, provided that they alone are licensed to engage in the “….evaluation and mitigation of impacts from forestry activities”, per PRC § 753 of the Professional Foresters Law. These proposed treatments are then reviewed by the Director, consistent with the review processes described within the FPA and Rules in order to determine adequate resource protection. This amendment is necessary to clarify this requirement of establishing such treatments.

Amend §§ 914.6(h), 934.6(h), and 954.6(h) (Previously (f))
The proposed amendment requires that certain provisions related to Waterbreak location and construction be applied to all Waterbreaks, not simply those associated with roads and skid trails. The purpose of this amendment is to ensure that the resource protection goals of 14 CCR §§ 914, 934, and 954 are achieved for all waterbreak applications, not simply those constructed on roads and skid trails. This amendment is necessary to clarify this requirement in order to ensure clear and consistent implementation and enforcement of these provisions.

Amend §§ 1034(n)(2)(A)&(B) and 1092.09(m)(2)(A)&(B)
The proposed amendments provides that a Timber Harvest Plan (1034) or Programmatic Timber Harvest Plan (1092.09) disclose the type of yarding, and specify that Tethered and Non-Tethered yarding systems are sub-groups within the “Tractor, skidder, forwarder” group. The purpose of this amendment is to clarify the requirement to disclose Tethered Operations within these documents, where other methods of logging are identified explicitly in order to introduce clarity within these provisions. It should be noted that other requirements of certain permitting vehicles require disclosure of yarding/logging methods, but do not cite, or “group” those methods explicitly to potentially introduce a lack of clarity as may be created without the proposed amendment in these sections. This disclosure is necessary in order to promote the enforcement of regulations related to Tethered Operations by those reviewing these Plans.
Amend §§ 1034(x)(17), 1038.2(j), 1038.4(l), 1052(a)(4), 1090.5(w)(17), 1090.7(n)(16), 1092.09(l)(12), 1094.6(e)(17), 1094.8(u)(17)

The proposed amendment requires that, on existing maps which are required for the permitting of various Timber Operations, the boundaries of any areas where Tractor Operations are proposed for use on areas designated for Cable Yarding must be shown. The purpose of this amendment is to require disclosure of such areas to the Department and is necessary to provide for the enforcement of the prescriptive limitations of Tractor Operations in such areas in order to ensure the adequate protection of forest resources.

Non-Substantive Amendments
1. Capitalized and utilized terms defined pursuant to 14 CCR § 895.1 and this Article throughout the amendments where appropriate.
2. Made lower-case terms which were capitalized but not proper-nouns or undefined within applicable regulation or are not used consistent with their regulatory definition.
3. Re-structured existing regulatory structure to promote simple and more logical regulatory structure.
4. Included written and Arabic numbers where they exist.
5. Improved grammar and spelling throughout.

ECONOMIC IMPACT ANALYSIS (pursuant to GOV § 11346.3(b)(1)(A)-(D) and provided pursuant to 11346.3(a)(3))
The effect of the proposed action is to: 1) provide regulatory certainty around the role and application of tethered logging operations within the Rules; 2) create more straightforward and streamlined requirements for the regulated public surrounding the application of rules related to tractor and cable timber operations; 3) provide clarity for the implementation and enforcement of tractor and cable operation regulations.

There is one minor mapping requirement included within the proposed action, however it is an element of larger and more complex mapping requirements which are already extant for various permitting mechanisms. Furthermore, the mapping requirement is only applicable for those conducting Tethered Operations within Cable Operations, a practice which previously would have required significant explanation and justification and created a similar economic impact than the modified regulations and mapping requirement, thereby offsetting any potential impact. There are no economic impacts associated with this requirement.

Creation or Elimination of Jobs within the State of California
The proposed action does not mandate any action on behalf of the regulated, it simply clarifies how new technologies may be integrated into existing forest practice. There are no new costs associated with this. No creation or elimination of jobs will occur.
Creation of New or Elimination of Businesses within the State of California
The regulatory amendments as proposed represent a continuation of existing forest practice regulations and are intended to guarantee certainty in their application. Given that the businesses which would be affected by these regulations are already extant, it is expected that proposed regulation will neither create new businesses nor eliminate existing businesses in the State of California.

Expansion of Businesses Currently Doing Business within the State of California
The regulatory amendments as proposed represent a continuation of existing forest practice regulations and are intended to guarantee certainty in their application. The proposed regulation will not result in the expansion of businesses currently doing business within the State.

Benefits of the Regulations to the Health and Welfare of California Residents, Worker Safety, and the State’s Environment
The benefit of the proposed action a regulatory scheme with improved clarity related to the use of Tethered Operations. Such an improvement in the clarity of use of tethered equipment is likely to lead to an increase in purchasing and utilization of such equipment, which is likely to improve worker health and safety over traditional cable operations.

Business Reporting Requirement (pursuant to GOV § 11346.5(a)(11) and GOV § 11346.3(d))
The proposed regulation does not require a business reporting requirement.

STATEMENTS OF THE RESULTS OF THE ECONOMIC IMPACT ASSESSMENT (EIA)
The results of the economic impact assessment are provided below pursuant to GOV § 11346.5(a)(10) and prepared pursuant to GOV § 11346.3(b)(1)(A)-(D). The proposed action:

- Will not create jobs within California (GOV § 11346.3(b)(1)(A)).
- Will not eliminate jobs within California (GOV § 11346.3(b)(1)(A)).
- Will not create new businesses (GOV § 11346.3(b)(1)(B)).
- Will not eliminate existing businesses within California (GOV § 11346.3(b)(1)(B)).
- Will not affect the expansion or contraction of businesses currently doing business within California (GOV § 11346.3(b)(1)(C)).
- Will yield nonmonetary benefits (GOV § 11346.3(b)(1)(D)). For additional information on the benefits of the proposed regulation, please see anticipated benefits found under the “Introduction Including Public Problem, Administrative Requirement, or Other Condition or Circumstance the Regulation is Intended to Address”.

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TECHNICAL, THEORETICAL, AND/OR EMPIRICAL STUDY, REPORT, OR SIMILAR DOCUMENT RELIED UPON (pursuant to GOV SECTION 11346.2(b)(3))

The Board of Forestry and Fire Protection relied on the following list of technical, theoretical, and/or empirical studies, reports or similar documents to develop the proposed action:


REASONABLE ALTERNATIVES TO THE PROPOSED ACTION CONSIDERED BY THE BOARD, IF ANY, INCLUDING THE FOLLOWING AND THE BOARD’S REASONS FOR REJECTING THOSE ALTERNATIVES (pursuant to GOV § 11346.2(b)(4)(A) and (B)):

- ALTERNATIVES THAT WOULD LESSEN ANY ADVERSE IMPACTS ON SMALL BUSINESS AND/OR
- ALTERNATIVES THAT ARE LESS BURDENSOME AND EQUALLY EFFECTIVE IN ACHIEVING THE PURPOSES OF THE REGULATION IN A MANNER THAT ENSURES FULL COMPLIANCE WITH THE AUTHORIZING STATUTE OR OTHER LAW BEING IMPLEMENTED OR MADE SPECIFIC BY THE PROPOSED REGULATION

Pursuant to GOV § 11346.2(b)(4), the Board must determine that no reasonable alternative it considers, or that has otherwise been identified and brought to the attention of the Board, would be more effective in carrying out the purpose for which the action is proposed, would be as effective and less burdensome to affected private persons than the proposed action, or would be more cost-effective to affected private persons and equally effective in implementing the statutory policy or other provision of law.

**Alternative 1: No Action Alternative**
The Board considered taking no action, but this alternative was rejected because it would not address the problem.

**Alternative #2: Make regulation less prescriptive**
This action would replace the existing prescriptive standards for Tractor and Cable Operations with performance-based regulations. This action would create issues related to the preservation of environmental quality with regards to the ministerial permitting of
certain timber harvesting operations and could lead to issues of clarity surrounding implementation and enforcement of the regulations. This alternative may reduce clarity and consistency with other portions of the rules which rely upon the existence of the current operational limitations in order to ensure that forest resources are preserved.

**Alternative #3: Proposed Action**

Alternatives 1 and 2 would not be more effective or equally effective while being less burdensome or impact fewer small businesses than the proposed action. Specifically, alternatives 1 and 2 would not be less burdensome and equally effective in achieving the purposes of the regulation in a manner that ensures full compliance with the authorizing statute or other law being implemented or made specific by the proposed regulation.

Additionally, alternatives 1 and 2 would not be more effective in carrying out the purpose for which the action is proposed and would not be as effective and less burdensome to affected private persons than the proposed action or would not be more cost-effective to affected private persons and equally effective in implementing the statutory policy or other provision of law than the proposed action. Further, none of the alternatives would have any adverse impact on small businesses.

**Prescriptive Standards versus Performance Based Standards (pursuant to GOV §§11340.1(a), 11346.2(b)(1) and 11346.2(b)(4)(A))**: Pursuant to GOV §11340.1(a), agencies shall actively seek to reduce the unnecessary regulatory burden on private individuals and entities by substituting performance standards for prescriptive standards wherever performance standards can be reasonably expected to be as effective and less burdensome, and that this substitution shall be considered during the course of the agency rulemaking process.

The proposed action is as prescriptive as necessary to address the problem, and contain a mix of performance-based and prescriptive requirements. Current forest practice rules surrounding tractor and cable timber operations are based in prescriptive minimum requirements for the protection of the states forest resources, which are necessary in order to accommodate for the various levels of individual project review which occurs for various permitting vehicles for timber operations. The prescriptive regulations proposed in this action are necessary in order to provide adequate clarity within the regulations.

Pursuant to GOV § 11346.2(b)(1), the proposed action does not mandate the use of specific technologies or equipment.

Pursuant to GOV § 11346.2(b)(4)(A), the abovementioned alternatives were considered and ultimately rejected by the Board in favor of the proposed action. The proposed action does not mandate the use of specific technologies or equipment, but does prescribe specific actions.
FACTS, EVIDENCE, DOCUMENTS, TESTIMONY, OR OTHER EVIDENCE RELIED UPON TO SUPPORT INITIAL DETERMINATION IN THE NOTICE THAT THE PROPOSED ACTION WILL NOT HAVE A SIGNIFICANT ADVERSE ECONOMIC IMPACT ON BUSINESS (pursuant to GOV § 11346.2(b)(5))

The fiscal and economic impact analysis for these amendments relies upon contemplation, by the Board, of the economic impact of the provisions of the proposed action through the lens of the decades of experience practicing forestry in California that the Board brings to bear on regulatory development.

The proposed action will not have a statewide adverse economic impact directly affecting businesses. The proposed action does not mandate any action on behalf of those conducting timber operations, it simply clarifies how new technologies may be integrated into existing forest practice. There is one minor mapping requirement included within the proposed action, however it is a minor portion of larger and more complex mapping requirements which are already extant for various permitting mechanisms. Additionally, this new requirement replaces previously existing requirements of disclosure which are similar in scope and any cost associated with this requirement is negligible.

DESCRIPTION OF EFFORTS TO AVOID UNNECESSARY DUPLICATION OR CONFLICT WITH THE CODE OF FEDERAL REGULATION (pursuant to GOV § 11346.2(b)(6))

The Code of Federal Regulations has been reviewed and based on this review, the Board found that the proposed action neither conflicts with, nor duplicates Federal regulations. There are no comparable Federal regulations related to conducting Timber Operations on private, state, or municipal forest lands.

POSSIBLE SIGNIFICANT ADVERSE ENVIRONMENTAL EFFECTS AND MITIGATIONS CEQA

CEQA requires review, evaluation and environmental documentation of potential significant environmental impacts from a qualified Project. Pursuant to case law, the review and processing of Plans has been found to be a Project under CEQA.

Additionally, the Board’s rulemaking process is a certified regulatory program having been certified by the Secretary of Resources as meeting the requirements of PRC § 21080.5.

While certified regulatory programs are excused from certain procedural requirements of CEQA, they must nevertheless follow CEQA’s substantive requirements, including PRC § 21081. Under PRC § 21081, a decision making agency is prohibited from approving a Project for which significant environmental effects have been identified unless it makes specific findings about alternatives and mitigation measures.

Further, pursuant to PRC § 21080.5(d)(2)(B), guidelines for the orderly evaluation of proposed activities and the preparation of the Plan or other written documentation in a
manner consistent with the environmental protection purposes of the regulatory program are required by the proposed action and existing rules.

The proposed action would be an added element to the state’s comprehensive Forest Practice Program under which all commercial timber harvest activities are regulated. The Rules which have been developed to address potential impacts to forest resources, including both individual and cumulative impacts, project specific mitigations along with the Department oversight (of rule compliance) function expressly to prevent the potential for significant adverse environmental effects.

The proposed action utilizes largely extant prescriptive requirements for timber operations to regulate the emergent practice of Tethered Operations, which have the potential for similar, though reduced, impacts of known regulated timber harvesting methods. The proposed action imposes a mix of performance and prescriptive requirements on Tethered Operations which are a continuation of the existing requirements on Tractor Operations as a whole. Furthermore, where the novel operational practice of Tethered Operations are proposed, the regulations rely upon the plan preparation and review process to ensure the absence of significant environmental impact from proposed operations.

Plans, and other regulatory mechanisms which permit timber operations, contain a mix of project relevant avoidance and mitigation measures to reduce the risk for potential significant adverse effects.

State representatives review every Plan to determine if a Project will have a significant adverse environmental impact. Prior to making a decision of approval or denial, the review team (the Director) often supplements the information provided by the RPF and the plan submitter when necessary to ensure that all relevant information is considered. The review team (the Director) has broad discretion to request the necessary information be provided to the Department and responsible agencies to facilitate review and development of appropriate mitigation measures to ensure that the Project will not cause a significant adverse environmental impact. Local and federal agency representatives are also involved in the review process.

Pursuant to 14 CCR § 896(a), it is the Board's intent that no Plan shall be approved which fails to adopt feasible mitigation measures or alternatives from the range of measures set out or provided for in the Rules which would substantially lessen or avoid significant adverse impacts which the activity may have on the environment.

Once Plans are approved, state representatives continue with compliance inspections of approved Plans until the conclusion of the Plan’s lifespan. Where the Rules or approved Plan provisions have been violated, specified corrective and/or punitive enforcement measures, including but not limited to financial penalties, are imposed upon the identified offender(s).
In summary, the proposed action does not have the potential to result in significant adverse environmental effects.